

## Ch 10 Review

## 10.1 Exponential Functions

- graphs
- write equations
- change base

$$y = ab^x$$

$$2^x = \frac{1}{32}$$

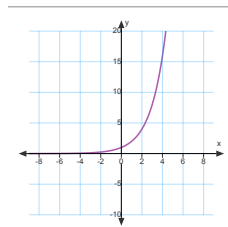
$$2^x = 2^{-5}$$

## 10.2 Logarithmic and Exponential forms

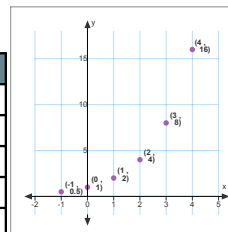
- switching between the forms
- inverse properties  $\log_5 5^3 = 3$

$$5^{\log_5 7} = 7$$

$$y = 2^x$$



X	Y
-1	0.5
0	1
1	2
2	4
3	8
4	16



## 10.3 Properties of Logs

- + x
- ÷ -
- power rule

$$\log 5^p = p \log 5$$

## 10.4 Common Logs

- change of base formula  $\log_2 9 = \frac{\log 9}{\log 2}$
- word problems, pH,  $I_0$ , richter

## 10.5 e &amp; ln

- Compound continuously

$$A = Pe^{rt}$$

## 10.6 Growth and Decay

- word

$$Y = a(1 \pm r)^t \rightarrow \%$$

$$Y = ae^{\pm kt}$$

$$Y = a\left(1 + \frac{r}{n}\right)^{nt}$$

Review problems

p571

#s 1-8, 11, 12, 13-27 odd, 28, 29

p570

#s 63-65

p568

#s 24-27

~~on~~ Collect Monday